

**Medtronic Sofamor Danek
PROGENIX™ DBM Putty
510(K) Summary –K060794
December 2006**

I. Company: Medtronic Sofamor Danek USA, Inc.
1800 Pyramid Place
Memphis, TN 38132

DEC 18 2006

Contact: Edward S. Chin, D. Ph., MBA
Group Director, Regulatory and Clinical Affairs
(901) 396-3133

II. Proposed Proprietary Trade Name: PROGENIX™ DBM Putty
Classification Name: Bone Void Filler
Product Code: MQV
Regulation No.: 888.3045

III. Product Description/Purpose of Application

PROGENIX™ DBM Putty contains human demineralized bone matrix (DBM) in a biocompatible carrier. The carrier is a mixture of bovine collagen with a natural polysaccharide (sodium alginate). The components are mixed in phosphate buffered saline to achieve a flowable or moldable consistency. All DBM used in the preparation of Progenix DBM Putty must induce bone formation when evaluated a validated athymic nude rat assay. Additionally, every lot of PROGENIX DBM PUTTY must also induce bone formation in this assay system prior to being released for use. Findings from an animal model are not necessarily predictive of human clinical results.

PROGENIX™ DBM Putty is a single use product intended for use in filling bony voids or gaps of the skeletal system not intrinsic to the stability of the bony structure. Additionally, this product is not designed to impart any mechanical strength to the surgical site. PROGENIX™ DBM Putty is provided in ready-to-use malleable forms that may be molded or manipulated by the surgeon into various shapes. This product has been shown to be osteoconductive as well as osteoinductive in an athymic rat assay, allowing for bony ingrowth across the graft site while resorbing at a rate consistent with bony healing.

The purpose of this application is to notify the FDA of our intent to market PROGENIX™ DBM Putty as a bone void filler.

IV. Indications

PROGENIX™ DBM Putty is intended for use as a bone graft substitute, and bone void filler in bony voids or gaps of the pelvis, ilium and extremities not intrinsic to the stability of the bony structure. The voids or gaps may be surgically created osseous defects or osseous defects created from traumatic injury to the bone. PROGENIX™ DBM Putty provides a bone void filler that is resorbed/remodeled and is replaced by host bone during the healing process.

V. Viral Inactivation

PROGENIX™ DBM Putty is produced from tissue and collagen which undergoes processing steps validated to inactivate a panel of viruses representative of those which are clinically relevant. The cortical bone used to produce the DBM undergoes a proprietary process demonstrated to inactivate viruses. Furthermore, the DBM undergoes additional steps which are also effective in inactivating viruses. These processing steps further reduce the risk of viral contamination beyond donor screening and testing.

V1 Substantial Equivalence

Documentation was provided which demonstrated PROGENIX™ DBM Putty to be substantially equivalent to previously cleared bone void fillers such as DBX Demineralized Bone Matrix Putty and Paste (Musculoskeletal Transplant Foundation, K040262, SE 03/17/05), ALLOMATRIX® Putty (Wright Medical Technology, K041168, SE 08/02/04), GRAFTON PLUS® DBM Paste (Osteotech, K040348, SE 11/23/05) and OSTEOFIL® DBM Paste (Regeneration Technologies, Inc., K043420, SE 01/10/05).



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

DEC 18 2006

Medtronic Sofamor Danek
% Edward S. Chin, D. Ph, MBA
Group Director, Regulatory and Clinical Affairs
1800 Pyramid Place
Memphis, Tennessee 38132

Re: K060794

Trade/Device Name: Progenix™ DBM Putty
Regulation Number: 21 CFR 888.3045
Regulation Name: Resorbable calcium salt bone void filler device
Regulatory Class: Class II
Product Code: MBP, MQV
Dated: September 15, 2006
Received: September 19, 2006

Dear Dr. Chin:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

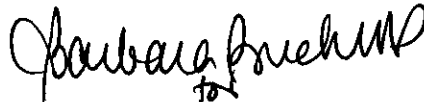
If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120 . Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Mark N. Melkerson", with a stylized flourish at the end.

Mark N. Melkerson
Director
Division of General, Restorative
and Neurological Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

December - 2006

510(k) Number (if known): K060794

Device Name: PROGENIX™ DBM Putty

Indications for Use: PROGENIX™ DBM Putty is intended for use as a bone graft substitute, and bone void filler in bony voids or gaps of the pelvis, ilium and extremities not intrinsic to the stability of the bony structure. The voids or gaps may be surgically created osseous defects or osseous defects created from traumatic injury to the bone. PROGENIX™ DBM Putty provides a bone void filler that is resorbed/remodeled and is replaced by host bone during the healing process.

Prescription Use X
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use
(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)



(Division Sign-Off)

Division of General, Restorative,
and Neurological Devices

510(k) Number K060794